

3125-172

09/27/2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

SEP 27 2000

Karen S. Cain  
Manager, State Regulatory Affairs  
Bayer Corporation  
Agriculture Division  
8400 Hawthorn Road  
P.O. Box 4913  
Kansas City, MO 64120-0013

Subject: Amendment - Final Label Revisions and Use Deletions  
Di-Syston 15% Granular Systemic Insecticide  
EPA Registration No. 3125-172  
Your submission dated March 10, 1999

Dear Ms. Cain:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable, subject to the comments listed below. A stamped copy of the label is enclosed for your records.

1. Move the statement "Do not contaminate feed or food." to the "Directions for Use" section of your label.
2. Please update your respirator requirements in accordance with PR Notice 98-9.
3. Under the "Precautionary Statements" section of your label, please add (or amend) statements as follows: "Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Do not get in eyes, on skin, or on clothing. Remove contaminated clothing and wash clothing before reuse. Wear protective clothing and gloves."

EPA has issued PR Notice 2000-3 revising first aid statements. The following are revised statements and headings that are required for products placed in toxicity category III and above. These statements are required to be added to labels by October 1, 2001. Please revise your label accordingly.

"IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting

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unless told to do so by a poison control center or a doctor. Do not give anything by mouth to an unconscious person.

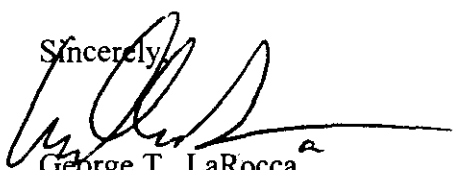
IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice”.

In the “To Physician” section of your label, please add the following information to this section: Company telephone number to specific medical personnel who can provide specialized medical advice.

If you have any questions, please call Dr. William Sproat of my team at 703-308-8587.

Sincerely,  
  
George T. LaRocca  
Product Manager 13  
Insecticide Branch  
Registration Division (7505C)

Enclosure

cc: Christine Scheltema, SRRD

# RESTRICTED USE PESTICIDE

Due to acute human oral, dermal, and inhalation toxicity

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

# Di-Systemon® 15%

SEP 27 2000

## Granular Systemic Insecticide

Fungicide, and Insecticide  
as amended, for the pesticide  
registered under EPA Reg. No.  
3125-172

For effective systemic crop protection.

### ACTIVE INGREDIENT:

O,O-Diethyl S-[2-(ethylthio)ethyl]phosphorodithioate . 15%

INERT INGREDIENTS: ..... 85%

100%

EPA Reg. No. 3125-172

Net Weight: \_\_\_ Pounds

**STOP - Read the label before use.**

**Keep out of reach of children.**

## POISON

## DANGER



## PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

### STATEMENTS OF PRACTICAL TREATMENT

#### Organophosphate

**TREATMENT:** In case of poisoning, call a physician immediately. Have patient lie down and keep quiet. **If swallowed:** Vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz or 15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. **If on skin:** Remove contaminated clothing and wash skin immediately with soap and warm water. Get medical attention immediately. **If eyes are contaminated:** Wash with plenty of flowing water. Get medical attention immediately.

**To Physician:** ANTIDOTE - Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered but only in conjunction with atropine.

Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

**SYMPTOMS OF POISONING:** A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Poisonous if swallowed, inhaled, or absorbed through the skin. Rapidly absorbed through the skin. Do not get in eyes or on skin. Do not breathe dust. Do not contaminate feed or food. Keep out of reach of children.

#### Personal Protective Equipment

#### Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Water-proof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering controls statements:** When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**User Safety Recommendations:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spills.

This pesticide is toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval.

The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours. Each 48 hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using DI-SYSTON 15% Granular systemic insecticide.

**CONDITIONS OF SALE:** THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

5/10

DI-SYSTON 15% Granular systemic insecticide enters the plant through the root system. The insecticide when placed near the roots, is picked up and moves in the sap stream to all parts of the plant where it kills insects as they feed on the plant.

This formulation of DI-SYSTON 15% Granular is highly versatile and may be applied by various methods. It can be drilled in the furrow with seed, broadcast, or banded on each side of the seed furrow. Foliage broadcast application may be applied by ground or air equipment. Time and method of application and limits for use are discussed in detail for each specific crop under "Remarks" below.

As a preplant treatment for ornamental flowers, shrubs, and trees, apply granules evenly to seed bed and mix into soil; seeds or transplants are then placed in the normal manner.

Established plants may be treated by distributing granules uniformly under foliage canopy. Work the granules uniformly into top soil and water thoroughly. The active ingredient will move into the root zone and be taken up by the root system.

**RECOMMENDED APPLICATIONS**

**IMPORTANT:** When used on cotton, beans, or lettuce at the maximum recommended rates under adverse conditions such as extremely cool or wet or extremely dry weather, DI-SYSTON systemic insecticide may cause some delay in emergence, stunting of seedlings, or reduction of stand. Such damage may be more pronounced in light, sandy soils. Plant injury may also occur or may be enhanced when certain pre-emergent herbicides are used in conjunction with DI-SYSTON.

RECOMMENDED APPLICATIONS			
CROP	INSECT	DOSAGE DI-SYSTON 15% G	REMARKS
FIELD CROPS Barley	Aphids* Grasshoppers Hessian fly Mites (Except Wheat curl mite) Thrips	6.7 lb per acre	Apply by drilling or broadcast at planting time, or as a broadcast after emergence. Do not apply more than twice per season nor within 60 days of harvest for grain. Allow a minimum of 21 days between applications. Do not graze or cut for forage within 30 days of treatment.  For control of Hessian fly, apply at planting. In addition, foliar application of DI-SYSTON 8 to control later generations in southern growing areas may be beneficial.  <b>ROW SPACING RATE CHART FOR DI-SYSTON 15% G</b> <u>Row Spacing**</u> <u>Lb 15% G / Acre</u> <u>Row Spacing**</u> <u>Lb 15% G / Acre</u> 6, 7, or 8                      6.7                      14                      3.9 10                                      5.4                      16                      3.4 12                                      4.5                      18                      3.0
Cotton	Aphids* Mites Thrips (Except Western flower thrips)	5 to 8 oz/1000 ft of row**  up to a maximum of 6.7 lb/A  OR  4 to 6.7 lb/A	Read "IMPORTANT" statement under "RECOMMENDED APPLICATIONS" for additional information before use on this crop.  <b>RATE CHART FOR APPLICATION</b> <u>Heavy Soils</u> <u>Medium Soils</u> <u>Light Soils</u> 8 oz 15% G/                      6.6 oz 15% G/                      5 oz 15% G/ 1000 ft of row                      1000 ft of row                      1000 ft of row OR                                      OR                                      OR 6.7 lb 15% G/acre   5.3 lb 15% G/acre   4 lb 15% G/acre  <b>DO NOT FEED TREATED COTTON FORAGE.</b>  <b>At Planting/Replanting:</b> Place the granules in the seed furrow or in a soil incorporated band on each side of the furrow. This application may be used in conjunction with a fungicide application which is registered and recommended for disease control on this crop.  This at plant soil application of DI-SYSTON may be used in conjunction with a preemergent surface applied or preplant incorporated treatment of Command herbicide. Refer to the herbicide product label for appropriate preplant or preemergent herbicide application directions and use rates. Do not reduce the application rate of DI-SYSTON insecticide when Command herbicide is applied as a banded treatment.  <b>Post Plant: (Irrigated Cotton Only)</b> One soil incorporated side-dress application may be made. Regardless of the method of application, do not apply more than once per season. Allow at least 28 days between last application and harvest.
Peanuts	Aphids Leafhoppers Mites Thrips (Except Western flower thrips)	8 oz/1000 ft of row up to a maximum of 6.7 lb/A	Read "IMPORTANT" statement under "RECOMMENDED APPLICATIONS" for additional information before use on this crop.  Apply specified dosage per acre in-furrow or as a soil incorporated band on each side of the seed at planting or as a soil incorporated side-dressing after plants are established.  In conjunction with this soil application of DI-SYSTON, Basagrán herbicide may be used at cracking or early postemergence at rates up to 1 pint/acre. Do not make a second application of Basagrán until 21 days after peanut emergence. Do not apply more than 1.0 pint/acre of Basagrán in single or multiple applications until 21 days after peanuts have emerged.
* Due to greenbug resistance in certain areas, Di-Syston used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.			
**On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches			

6/10

RECOMMENDED APPLICATIONS																			
CROP	INSECT	DOSAGE DI-SYSTON 15% G'	REMARKS																
FIELD CROPS continued Sorghum	Aphids* (Greenbugs)	6 to 8 oz/1000 ft of row up to a maximum of 6.7 lb/A OR 5 to 6.7 lb/A	<b>PLANTING: IN-FURROW</b> Place the granules in the seed furrow approximately 1/2 inch above the seed at planting. Do not apply directly on the seed. See "NOTE" below.																
		8 oz/1000 ft of row up to a maximum of 6.7 lb/A	<b>PLANTING: BAND</b> Place the granules in a 4 to 6 inch soil incorporated band directly behind the planter shoe in front of the press wheel. Do not apply directly on the seed. See "NOTE" below. <b>POST-PLANTING: WHORL</b> Apply specified dosage by broadcasting into the whorl. Regardless of method of application, do not apply more than 1 time per season. Allow at least 30 days between last application and harvest of grain and at least 45 days between last application and harvest for forage or fodder.																
Soybeans	Aphids Leafhoppers Mites Thrips (Except Flower thrips) Mexican bean beetle	8 oz/1000 ft of row up to maximum of 6.7 lb/A	Place the granules in a 4-inch soil incorporated band over the seed furrow behind the planter shoe and in front of the press wheel or in a soil incorporated band on each side of the seed furrow at planting time. Do not apply directly on the seed. Allow at least 75 days between application and harvest of forage or hay. <b>Soybeans Grown for Seed Only:</b> As an alternate to the applications above, soybeans grown for seed only can be treated with a soil incorporated side-dress after plants are established. Soybeans treated in this way should not be pastured and the treated crop cannot be used for feed, food or forage.																
Tobacco	Aphids Flea beetles Thrips (Except Western flower thrips) Southern potato wireworm (See NOTE)	<b>Transplant Seed Beds:</b> 1 oz/100 sq ft of bed up to maximum of 26.7 lb/A	Apply evenly over bed area. Incorporate the granules thoroughly into the top 2 to 3 inches of soil; seed beds in normal manner. An alternative treatment may be made by broadcasting the granules evenly over the plants after emergence and watering to thoroughly incorporate the granules. Only one application may be made to transplant seed beds.																
		<b>Field Application:</b> 20 to 40 oz/1000 ft of row up to maximum of 26.7 lb/A OR 13.3 to 26.7 lb/A	Apply in a 6- to 12-inch soil incorporated band over the row or as a soil incorporated broadcast treatment immediately before transplanting. Incorporate the granules by working them into the top 2 to 3 inches of soil. Plant crop in the usual way. Only one field application may be made per crop season regardless of DI-SYSTON formulation used.																
<b>NOTE: DI-SYSTON 15% Granular will aid in control of the Southern potato wireworm.</b>																			
Wheat (Fall)	Aphids (Greenbugs)* (Bird cherry-oat) Grasshoppers Hessian fly Mites (Except Wheat curl mite)	1.67 oz/1000 ft of row up to a maximum of 6.7 lb/A **	Apply by drilling or broadcast at planting time in the fall. Make only one application and do not graze or cut for forage within 75 days of treatment. For control of Hessian fly, apply at planting. In addition, one foliar application of DI-SYSTON 8 to control later generations in southern growing areas may be beneficial. <b>ROW SPACING RATE CHART FOR DI-SYSTON 15% G</b> <table border="1"> <thead> <tr> <th>Row Spacing**</th> <th>Lb 15% G / Acre</th> <th>Row Spacing**</th> <th>Lb 15% G / Acre</th> </tr> </thead> <tbody> <tr> <td>6, 7, or 8</td> <td>6.7</td> <td>14</td> <td>3.9</td> </tr> <tr> <td>10</td> <td>5.4</td> <td>16</td> <td>3.4</td> </tr> <tr> <td>12</td> <td>4.5</td> <td>18</td> <td>3.0</td> </tr> </tbody> </table>	Row Spacing**	Lb 15% G / Acre	Row Spacing**	Lb 15% G / Acre	6, 7, or 8	6.7	14	3.9	10	5.4	16	3.4	12	4.5	18	3.0
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* Due to greenbug resistance in certain areas, Di-Syston used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details. **On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.																			

7/10

RECOMMENDED APPLICATIONS			
CROP	INSECT	DOSAGE DI-SYSTON 15% G	REMARKS
FRUIT Coffee (Puerto Rico only)	Leaf miner	2 to 4 grams/ft of tree height	Distribute granules uniformly under the tree canopy. Do not apply more than twice per year. Make no more than one pre-harvest and one post-harvest application. Do not make the pre-harvest application within 90 days of harvest.  Any application equipment which is placed on the applicator's body or is carried by an applicator must meet the following requirements: The pesticide container and the entire path of pesticide through the equipment must be constructed of solid material impervious to dust. All joints must be tight-fitting to prevent escape of granules or dust from any point other than the designed discharge point(s). The pesticide container must be fitted with a tight-fitting lid which prevents escape of granules or dust during operation in any position. The equipment must be maintained in leak free condition. The equipment must be removed from the applicator's body for filling. The equipment exterior must be thoroughly cleaned of pesticide granules and dust before being placed on the applicator's body.
NON-BEARING FRUIT Fruit Trees (apples, apricots, cherries, crabapples, peaches, pears, plums, and prunes)	Aphids Lace bug Leafhoppers Mites Thrips Whiteflies	0.16 to 1.56 lb/tree OR 2.5 oz per inch of trunk diameter	Spread granules uniformly from trunk to drip line on all sides. Work into soil and water thoroughly. The higher dosage is recommended for heavy organic or muck soils. For transplanting, equivalent quantities should be applied into planting hole. Do not apply to trees that will bear fruit during current crop year.
Strawberries (Propagating Plants only)	Aphids Mites (except Cyclamen mite)	17 to 34.4 oz per 1000 feet of row (42-inch row spacing)** OR 13.3 to 26.7 lb/A	Apply by side-dressing on each side of the row or by broadcasting over the row as needed. Do not use fruit from treated plants for food purposes.
Raspberries (Nursery stock only) (Northeast States Only)	Aphids	53.3 lb/A	<b>BAND APPLICATION:</b> Apply specified dosage in a 24-inch band over the row to new or established plantings. Work granules 2 to 3 inches into the soil using a cultivator or other suitable equipment. A second application of granules may be applied to the soil later in the season. Consult your State Agricultural Experiment Station or Extension Service for proper timing of applications.
VEGETABLES Beans	Aphids Leafhoppers Mexican bean beetle (larvae) Mites Thrips	6 oz per 1000 feet of row up to 6.7 lb/A	Read "IMPORTANT" statement under "RECOMMENDED APPLICATIONS" for additional information before use on this crop. For snap or green Lima beans, place the granules in a soil incorporated band on each side of the seed furrow at planting time only. For dry beans, apply as above at planting time or as a soil incorporated side-dressing on each side of the row. Allow at least 60 days between application and harvest. Do not apply directly on the seed. Only one application is allowed per season. Do not feed vines or hay.
<p>* Due to greenbug resistance in certain areas, Di-Syston used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.</p> <p>** On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.</p>			

8/10

RECOMMENDED APPLICATIONS			
CROP	INSECT	DOSAGE DI-SYSTON 15% G	REMARKS
<b>VEGETABLES continued</b> Brussels Sprouts Broccoli Cabbage (Includes tight-heading varieties of Chinese cabbage) Cauliflower	Aphids Flea beetles Leafhoppers	7.4 oz/1000 ft of row OR 6.7 lb/A	Do not apply to vegetables grown for seed.  <b>Transplant Seed Beds:</b> Apply granules evenly over bed area. Thoroughly incorporate into the top 2 to 3 inches of soil; seed beds in normal manner. An alternate seed bed treatment may be made by broadcasting the granules evenly over the plants after emergence and watering to thoroughly incorporate the granules. Do not apply more than one seed bed treatment.  <b>Field Applications:</b> Place the granules as a soil incorporated band on each side of the seed furrow or transplanted row at planting and/or as a soil incorporated side-dressing after plants become established. Do not apply directly on the seed.  Only one field application is allowed. For broccoli, allow at least 14 days between application and harvest. For cabbage, allow at least 42 days between application and harvest. For brussels sprouts, allow at least 30 days between last application and harvest. For cauliflower, allow at least 40 days between last application and harvest.
	Brussels Sprouts	Mites Thrips	
Cabbage (Includes tight-heading varieties of Chinese cabbage)	Root Aphid	14.7 oz/1000 ft of row (for 36" row spacing) up to a maximum of 13.3 lb/A	
Peas Lentils	Aphids Leafhoppers	6.7 to 16.7 lb/A	Apply by drilling or broadcasting at planting time, or as a soil incorporated side-dress on each side of the row after emergence. Do not apply more than once per season nor within 50 days of harvest. Do not feed vines or hay.
Peppers	Aphids	6.7 to 13.3 oz/1000 ft of row up to a maximum of 13.3 lb/A OR 6.7 to 13.3 lb/A	Place the granules in a soil incorporated band on each side of seed furrow at planting or at transplanting. Do not apply more than once per crop season nor within 90 days of harvest. Do not apply directly on the seed.
Potatoes	Aphids Flea Beetles (except tuber flea beetles) Leafhoppers Potato psyllid Southern potato wireworm Colorado potato beetles (early season reduction)	15 to 23 oz/1000 ft of row up to a maximum of 20 lb/a OR 13.5 to 20 lb/A	<b>ROW TREATMENTS</b> Place the granules in the seed furrow or in a soil incorporated band on each side of the seed furrow at planting or an application may be made as a soil incorporated side-dress after plants become established. Regardless of the methods used, only one soil application may be made per season. Use the higher rate on heavy organic soils.
		20 lb/A	<b>BROADCAST APPLICATION</b> Apply specified dosage per acre as a preplant broadcast application or as a postemergence soil incorporated side-dress application after the plants become established. Incorporate granules into soil to a depth of 2 to 3 inches using a disc or other suitable equipment. Plant crop in usual manner. <u>Regardless of the method used, only one soil application may be made per season.</u>  Allow at least 75 days between last application and harvest. East of the Rocky Mountains foliar applications of DI-SYSTON 8 may be made in addition to an at-planting soil incorporated treatment. Allow 14 days between all applications. Refer to label for DI-SYSTON 8. Do not mix this product with Phosalone.
Colorado potato beetle populations in Northeast U.S. (except Maine) and in Virginia and North Carolina have developed resistance to some insecticides, including DI-SYSTON. Consult your state extension agent/agricultural advisor for insect resistance management strategies and recommended insect control methods for your area.			
* Due to greenbug resistance in certain areas, Di-Syston used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.			
** On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.			



9/10

RECOMMENDED APPLICATIONS			
CROP	INSECT	DOSAGE DI-SYSTON 15% G	REMARKS
ORNAMENTALS Flowers and Groundcover (Excluding bulbs and turf)	Aphids Lace bug Leafhoppers Mites Thrips Whiteflies	3.5 to 7.25 oz per 100 ft of row	<b>ROW TREATMENT</b> As a row treatment apply in a band on each side of the seed furrow, or as a band over the row. Incorporate thoroughly into soil and water heavily. The higher dosage is recommended for heavy organic or muck soils.
		7 oz per 100 sq ft	<b>BROADCAST</b> For mass planting apply as a broadcast treatment and incorporate into the soil before planting or apply after plants are established. Granules must be incorporated in the soil by mechanical means or thoroughly watered in so no pesticide remains on the soil surface. Repeat applications at 4 to 6 week intervals if necessary.
		2 grams per sq ft	<b>POTTED PLANTS</b> For application to potted plants, determine surface area of container, [diameter (inches) squared x 0.7865 divided by 144 equals square feet area of container]. Apply appropriate amount of DI-SYSTON 15% Granular by thorough incorporation as directed.
Shrubs Trees (Including Christmas trees)	Aphids Birch leaf miner Camellia scale Elm leaf beetle European elm scale Holly leaf miner Lace bug Leafhoppers Mimosa webworm Mites Pine tip moth Soft scale ( <i>Coccus hesperidum</i> ) Tea scale Thrips Whiteflies	<b>SHRUBS</b> 3.75 to 7.5 grams per foot of height	<b>SHRUBS</b> Apply specified dosage per foot of shrub height. For shrubs 1-3 feet tall apply the lower rate and on plants 3-6 feet in height apply the higher rate. Distribute granules uniformly under the shrub canopy, incorporate thoroughly into the soil, and water heavily. Repeat applications at 4 to 6 week intervals if necessary. See Note below.
		<b>TREES</b> 2.5 oz per inch of trunk diameter measured 4 feet from the ground	<b>TREES</b> <b>Broadcast:</b> Spread granules uniformly from trunk to drip line on all sides. Incorporate thoroughly into soil and water heavily so that no pesticide remains on the soil surface. See Note below. <b>Transplants:</b> For transplanting, equivalent quantities should be applied in the planting hole. Uniformly mix DI-SYSTON 15% Granular in the bottom one-half of the backfilled soil when planting. A minimum of 6 inches of untreated soil should be placed on the backfilled soil. <b>Soil implant:</b> With an auger or soil sampling tool, dig 2 equally spaced holes for each inch of trunk diameter. (Do not use less than 4 holes per tree.) Dig the holes 9 to 12 inches deep under the drip line. Place an equal amount of DI-SYSTON 15% Granular in each hole. Fill the holes to the surface with soil, compress, and add additional soil to level. Keep the treated area moist for 7 to 10 days.
		<b>Note:</b> Any application equipment which is placed on the applicator's body or is carried by an applicator must meet the following requirements: The pesticide container and the entire path of pesticide through the equipment must be constructed of solid material impervious to dust. All joints must be tight-fitting to prevent escape of granules or dust from any point other than the designed discharge point(s). The pesticide container must be fitted with a tight-fitting lid which prevents escape of granules or dust during operation in any position. The equipment must be maintained in leak free condition. The equipment must be removed from the applicator's body for filling. The equipment exterior must be thoroughly cleaned of pesticide granules and dust before being placed on the applicator's body.	
		5 lb/1000 linear ft of row OR a soil injection 4 to 6 inches beneath the soil surface in 1 or 2 linear application trenches	<b>Soil Injection:</b> Use an opening disk or shoe to make a furrow 4 to 6 inches deep between trunk and drip line of tree parallel to the direction of the row. Apply DI-SYSTON 15% Granular through a tube so that the material is deposited in the bottom of the furrow. A device to close and seal the furrow should be used following the placement of the material so that no granules are present on the soil surface.
<p>* Due to greenbug resistance in certain areas, Di-Syston used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.</p> <p>** On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.</p>			

10/10

Equivalent Measures of DI-SYSTON 15% Granular		
1 level teaspoonful = 3 grams	10 level teaspoons = 1 ounce	
TREATMENT OF INDIVIDUAL POTS WITH DI-SYSTON 15% GRANULAR		
POT SIZE (Inches Diameter)	SURFACE Square Feet	GRAMS/POT DI-SYSTON 15% G
2.25	0.028	0.06
2.5	0.034	0.07
3.0	0.049	0.10
3.5	0.067	0.13
4.0	0.087	0.17
4.5	0.110	0.22
5.0	0.136	0.27
5.5	0.165	0.33
6.0	0.196	0.40
7.0	0.267	0.53
8.0	0.349	0.70
10.0	0.545	1.10
12.0	0.785	1.60

### RESTRICTIONS

Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not treat crops grown in the greenhouse.

Do not apply this product with a knapsack or other equipment that is placed on the user's body.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking invert to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response Telephone No. is 800-414-0244, or contact Chemtrec at 800-424-9300.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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